Living and Working in Space: Returning to the Moon

Classroom activities are demonstrated from the following NASA Education Materials during the professional development workshop Living and Working in Space: Returning to the Moon:

Exploring the Moon: A Teacher's Guide with Activities for Earth and Space Sciences
This teacher's guide has been designed for use in upper elementary through high school. Provided in the guide is background information about the moon. The activities are divided into three units: Pre-Apollo, Learning from Apollo and the Future.
http://www.nasa.gov/audience/foreducators/topnav/materials/listbytype/Exploring.the.Moon.html

Suited for Space Walking: A Teacher's Guide with Activities for Technology Education, Mathematics, and Science
This NASA educator guide for grades 5-12 focuses on the technology behind space suits. Briefly discussed are the space environment, the history of spacewalking, NASA's current space suits and the work that astronauts do during spacewalks. Classroom activities, a glossary and NASA resources are included in the guide.
http://www.nasa.gov/audience/foreducators/topnav/materials/listbytype/Suited_for_Spacewalking_Educator_Guide.html

Rockets: A Educator's Guide with Activities in Science, Mathematics, and Technology
This NASA Educator Guide for grades K-12 includes information about the history, scientific principles and mathematics of rockets through exciting problem-solving and cooperative learning activities.
http://www.nasa.gov/audience/foreducators/topnav/materials/listbytype/Rockets.html

3…2…1… Liftoff! An Educator's Guide with Activities in Science, Mathematics, Technology, and Language Arts.
NASA educator guide for pre-K through 2nd grade focuses on activities about the International Space Station and the role rockets play in its construction.
http://www.nasa.gov/audience/foreducators/topnav/materials/listbytype/3-2-1.Liftoff.html

Space Food and Nutrition: An Educator's Guide with Activities in Science and Mathematics
The activities in this NASA educator guide for grades K-8 emphasize hands-on and cooperative involvement of students as they explore the unique problems of keeping astronauts happy and healthy in space.
http://www.nasa.gov/audience/foreducators/topnav/materials/listbytype/Space_Food_and_Nutrition_Educator_Guide.html

Meet Me at the Station – Video Program
The video provides an overview of the International Space Station (ISS). Topics discussed include: the history of space stations, who is involved with the ISS project, what the ISS will be used for, dimensions, power supply and the teamwork involved in this multi-national program. (Available from NASA CORE)

Tracking the International Space Station
http://spaceflight.nasa.gov/realdata/tracking

Lunar Nautics: Designing a Mission to Live and Work on the Moon Educator Guide
http://www.nasa.gov/audience/foreducators/topnav/materials/listbytype/Lunar_Nautics_Designing_a_Mission.html

Additional NASA Websites:
-Main NASA Website
www.nasa.gov
-NASA's Digital Learning Network (videoconferencing for NASA Education)
http://dln.nasa.gov/dln
-NASA CORE (Order Multimedia Materials)
www.core.nasa.gov
-NASA Educator Resource Center Network
http://www.nasa.gov/audience/foreducators/ERCN.html

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